Effect of potassium iodide on the catalytic hydrogenation of some organic compounds. Izv.vys.ucheb.zav.; khim.i khim.tekh. 2 no.3:340-344 *59. (MIRA 13:8)

1. Institut khimicheskikh nauk AN KazSSR i Kazakhekiy gosudaratvennyy universitet imeni S.M.Kirova.

(Potassium iodide) (Hydrogenation)

SONOL'SKIY, D.V., akademik; ZAKUNRAYEVA, C.D.

Iffect of alkali metal halides on the mechanism of catalytic hydrogenation of cyclohexane. Dokl. AN SSSR 124 no.4:880-882 (MIRA 12:1)

1.AN KarSSR (for Sokol'skiy). 2. Institut khimicheskikh nauk Akademii nauk KarSSR.

(Alkali metal halides) (Cyclohexane)

(Hydrogenation)

ZAKUMBAYEVA, G.D.; SOKOL'SKIY, D.V.

Effect of alkali metal halides on the hydrogenation rate of cyclohexene and mesityl oxide over palladium black. Trudy
Inst.khim.nauk AN Kazakh, SSR 7:3-12 '61. (MIRA 15:8)

(Alkali metal halides) (Hydrogenation)

(Cyclohexene) (Penetenone)

THE REPORT OF THE PROPERTY OF

SOKOL'SKIY, D.V., akademik, glav. red.; POPOVA, N.M., kand. khim. nauk, red.; ZAKUMBAYEVA, G.D., kand. khim. nauk, red.; BULAVKINA, L.A., kand.khim. nauk, red.; CREBENKINA, G.F., kand. khim. nauk, red.; DZHARDAMALIYEVA, K.K., kand. khim. nauk, red.; GLAZYRINA, D.M., red.; ROROKINA, Z.P., tekhn.red.

> [Catalytic reactions in the liquid phase] Kataliticheskie reaktsii v zhidkoi faze; trudy Vsesoiuznoi konferentsii. (MIRA 16:12) Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 459 p.

1. Vsesoyuznaya konferentsiya po kataliticheskim reaktsiyam v zhidkov faze, Alma-Ata, 1962. 2. Kazakhskiy tekhnologicheskiy institut i Institut khimicheskikh nauk AN KazSSR (for Sokol'skiy).

(Catalysis)

ZAKARINA, N.A.; ZAKUMBAYEVA, G.D.; SOKOL'SKIY, D.V., akademik

Effect of zinc ions on the sorption of hydrogen and the catalytic activity of palladium. Dokl. AN SSSR 153 no.1: 133-135 N '63. (MIRA 17:1)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KazSSR (for Sokol*skiy).

s/0020/64/156/006/1386/1388

ACCESSION NR: AP4041403

AUTHOR: Zakumbayeva, G. D.; Noskova, N. F.; Konayev, E. N. Sokol'skiy, D.

V. (Academician AN KazSSSR)

TITLE: Liquid phase oxidation of carbon monoxide

SOURCE: AN SSSR. Doklady*, v. 156, no. 6, 1964, 1386-1388

TOPIC TAGS: carbon monoxide, liquid phase oxidation, palladous chloride catalyst, cupric chloride catalyst, bromide ion, iodide catalyst, acetate ion, catalyst activity, catalyst regeneration, catalyst life

ABSTRACT: The liquid phase oxidation of low concentrations (0.3-2%) ABSTRACT: The liquid phase oxidation of low concentrations (0.3-2%) of carbon monoxide in a circulating system at 20, 40 and 60C was investigated. The CO-containing gas was bubbled at 150-300 liters/ hour through the catalyst solution at the bottom of the reactor. At nour through the catalyst solution at the bottom of the reactor. At 20C only 12% oxidation was attained using PdCl₂ or CuCl₂ in 0.02-20C only 12% oxidation was attained using PdCl₂ or CuCl₃ in 0.02-20C only 12% oxidation was attained using PdCl₂ or CuCl₃ in 0.02-20C only 12% oxidation was attained using PdCl₄ or CuCl₃ in 0.02-20C only 12% oxidation was attained using PdCl₄ or CuCl₃ in 0.02-20C only 12% oxidation oxidation was increased to 20% and was of bromide or iodide ion oxidation was increased to 20% and was independent of temperature. A maximum oxidation of 35% was attained independent of temperature. A maximum oxidation of 35% was attained independent of temperature. A maximum oxidation of 0.02N HCl. with [Pd2+]: [Cu2+] = 0.22, [Cl-]: [Br-] = 0.2 and 0.02N HCl.

Card 1/2

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CIA-RDP86-00513R001963620018-5 "APPROVED FOR RELEASE: 09/19/2001

sov/153-2-3-6/29 5(2), 5(4), 5(3)

Zakumbayeva, G. D., Sokol'skiy, D. V. AUTHORS:

The Effect of Potassium Iodide on the Catalytic Hydrogenation TITLE:

of Some Organic Compounds

Card 1/2

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 3, pp 340-344 (USSR) PERIODICAL:

At the beginning various results on investigations of the effect mentioned in the title are quoted (Refs 1-7). The ABSTRACT:

following Soviet authors are mentioned: Aykazyan and Fedorova (Ref 4) and Pleskov (Ref 5). The hydrogenation process of various organic compounds was investigated on a skeleton nickel catalyst (0.3 g) with 20, 30, and 40° in 50 % ethyl alcohol. The solutions were 1N, 0.5N, 0.1N and 0.01 N of potassium iodide. The kinetic and potential curves of the hydrogenation were recorded, namely for the following substances: cyclohexene (Fig 1), allyl alcohol (Fig 2 and Table), mesityl oxide (Fig 3), and n-nitrophenol (Fig 4). The following was found: The iodide

ion reduces the rate of hydrogenation of unsaturated compounds

and displaces the potential of the catalyst to the negative values. The inhibiting effect of the iodide is stronger than

The Effect of Potassium Iodide on the Catalytic SOV/153-2-3-6/29 Hydrogenation of Some Organic Compounds

that of the bromide; it still increases with the increasing dipole moment of the hydrogenated substance. The rate of hydrogenation depends on the fact to what degree the substance to be hydrogenated may reach the surface of the catalyst. There are 4 figures, 1 table, and 11 references, 10 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk AN KazSSR i Kazakhskiy gosudarstvennyy universitet imeni S. M. Kirova - Kafedra kataliza i tekhnicheskoy khimii (Institute of Chemical Sciences AS KazSSR and Kazakh State University imeni S. M. Kirov - Chair of

Catalysis and Technical Chemistry)

SUBMITTED: March 14, 1958

Card 2/2

ZAKUMBAYEVA, G.D.; NOSKOVA, N.F.; KONAYEV, E.N.; SOKOL'SKIY, D.V., akademik

Liquid phase oxidation of carbon monoxide. Dokl. AN SSSR 156 no.6:
1386-1388 Je '64. (MIRA 17:8)

1. Akademiya nauk Kazakhskoy SSR (for Sokol'skiy).

ZAKUMBAYEVA, G.D.; ZAZARIWA, N.A.; SOKOLISKIY, D.V., akademik

Effect of threshum and nickel matte on the corptive and catalytic properties of pallarium black. Dokl. AN SSSR 160 nc.4:829-832 F 165. (MIRA 18:2)

1. Institut khimicheskikh nauk AH HatheR. 2. AN HazSSR (for Sekoliskiy).

THE RESTRECT RESTRECT OF THE RESTRECT PROPERTY OF THE PROPERTY SOKOL'SKIY, D.V.; ZAKUMBAYEVA, G.D. Reduction of p-nitrophenol on a nickel skeletal catalyst in the presence of potassium chloride, bromide, and iodide. Trudy Inst. khim.nauk AN Kasakh.SSR 5:3-8 159. (MIRA 13:6) (Reduction) (Phenol)

ZARUMENTEVA, G.D.; SOKOL'SKIY, D.V.

**Effect of alkali metal halides on the rate of hydrogenation of allyl alcohol. Trudy Instakhim.nauk AN Kasakh.SSR 5:9-14 59. (MIRA 1316)

(Allyl Alcohol)
(Alkali metal halides)
(Hydrogenation)

SOKOL'SKIY, D.Y.; ZAKUMRAYEVA, G.D.

Refect of alkali metal halides on the mechanism of hydrogenation of cyclohexene on platinum black. Izv.AN Kazakh.SSR.Ser.khim. no.1: 62-64 '59.

(Alkali metal halides)
(Hydrogenation)
(Cyclohexene)

ZAKUMMAYEVA, G. D., Carm Chem Sci — (miss) "The effect halides of basic metals on the adsorbtion and catalytic properties of Ni, Pt and Pd,"
Alma-Ata, 1960, 19 pp, 250 cop (Kazakh State U in S. M. Kirov) (KL, 43-60, 117)

CALUMBAYEVA, C.D.
PHASE I BOOK EXPLOITATION SOV/3537

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk

- Trudy, t. 5 (Transactions of the Institute of Chemical Sciences, Kazakh SSR, Academy of Sciences, Vol 5) Alma-Ata, Izd-vo printed.
- Ed.: N.D. Zhukova; Tech. Ed.: Z.P. Rorokina; Editorial Board of Series: D.V. Sokol'skiy (Resp. Ed.), V.G. Gutsalyuk, and B.V. Suvorov (Resp. Secretary).
- PURPOSE: This collection of articles is intended for personnel of scientific research laboratories, laboratories of industrial enterprises, and faculty members of schools of higher education.
- COVERAGE: The collection reviews problems of liquid-phase catalytic hydrogenation to upgrade and reactivate various products. Hydro-hydrogen on different catalysts, chromatographic separation of mixtures, and the effect of halogen saits of alkali metals on the rate of hydrogenation reactions promoted by various skeleton catalysts are described. Conditions of catalytic hydrogenation

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Transactions of the Institute (Cont.)

SOV/3537

3

of natural fat, sunflower oil, and such synthetic products as esters of high-molecular fatty acids are set out. Dehydration of the butane fraction carried out in combination with isomerization is analyzed. Principles of selecting catalysts and regenerating them are reviewed and the formation of adsorption potentials on metal catalysts is explained. Each article presents References accompany most of the articles.

TABLE OF CONTENTS:

Sokol'skiy, D.V., and G.D. Zakumbayeva. Reduction of n-Nitrophenol Carried out Over the Skeleton Ni Catalyst in Presence of Potassium Chloride, Potassium Bromide, and Potassium Iodide

Zakumbayeva, G.D., and D.V Sokol'skiy. Effect of Alkali Metal Halides on the Rate of Hydrogenation of Allyl Alcohol

Sokol'skiy, D.V., and N.M. Popova. Adsorption of Hydrogen on Ni/Zno

Card 2/5

Transactions of the Institute (Cont.)	
Popova, N.M., and D. V. Salvas	7
Popova, N.M., and D.V. Sokol'skiy. Hydrogenation of Allyl All	lcohol
Shmonina v p p v	20
Shmonina, V.P., R.N. Khasanova, and D.V. Sokol'skiy. Chromat graphic Separation of Mixtures of Nitrobenzene-Aniline Produc	0-
Golodova I c	ts 28
tions of Natural Fats and Their Simplest Synthetic Analogues, Esters of High-Molecular-Fatty Acids	Reac- the
Golodova, r. g. p. v. a.	36
Golodova, L.S., D.V. Sokol'skiy, and Ye.A. Pod'yacheva. Kinet and Mechanism of Hydrogenation of Sunflower Oil in Solutions	tics
Luk'yanov, A.T. Problem of Formation of Adsorption Potentials	4 4 i
Venzhana	50
Yerzhanov, A.I., and D.V. Sokol'skiy. Potentiometric Study of Hydrogenation of Benzalacetone Over Skeleton Pd/Ni Catalysts	,
Buvalkina I A C W -	56
Buvalkina, L.A., G.V. Pavlova, Z.F. Prussakova, and D V. Sokol Over Oxide Catalysts Card 3/5	ane
	64
·	

Transactions of the Institute (Cont.) SOV/3537	
duction of Aromatic Nitro Compounds. Part IX	70
Flid. R.M. [Moskovskiy institut tonkoy khimicheskoy tekhnologii nology imeni M.V. LomonosovaMoscow Institute of Fine: Chemical Techlysts for Liquid-Phase Hydration of Acetylene to Acetaldehyde	72
Shcheglov, N.I., and D.V. Sokol'skiy. Some Methods of Reactivating the Skeleton Nickel Catalyst	81
Shcheglov, N.I., and D.V. Sokol'skiy. Hydrogenation of Acetylene	92
	97
Sokol'skaya, A.M., and D.V. Sokol'skiy. Hydrogenation of Cinnamic	
Card 4/5	10
,	

Transactions of the Institute (Cont.)	Sov/3537
Rasman, A.B., and D.V. Sokol'skiy. Effect of the control of the Rate of Catalytic Hydrogenation	f the Amount of Cata-
Sokol'skiy, D.V. Hydrogenation in Solutions	114
VAILABLE: Library of Congress	146
ard 5/5	TM/Jb 5-25-60

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

ZAKUMBAYEVA, G.D. AND SOKOLSKY, D.V.

"Hydrogen adsorption and catalytic activity of platinum, nickel and palladium in the presence of anions and cations."

Report submitted to the Intl. Committee for Electrochemical thermodynamics and kinetics, Rome, Italy 24-29 Sep 1962

ZAKUMBAYEVA, G.D.; NOSKOVA, N.F.; KONAYEV, E.N.; SOKOL'SKIY, D.V., akademik Low-temperature oxidation of carbon monoxide by aqueous solutions of palladium salts. Dokl. AN SSSR 159 no.6:1323-1325 D '64

(MIRA 18:1)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KazSSR (for Sokol'skiy).

ZAKARINA, N.A.; ZAKUMBAYEVA, G.B.; SCRUL'SKIT, D.V., Assetemik

Selective hydrogenation of dimethylacetylenylacetols on in block in the presence of cadmium ions. Dokl. AN SSSR 162 no.2.*27.4-316
Je '65. (MIRA 18:5)

1. Institut Khimicheskikh mank AN KazSSR. 2. AN KazSSR (for Sokol'skry).

5(4)

307/20-124-4-42/67

AUTHORS:

Sokol'skiy, D. Y., Academician, AS Kazakhskaya SSR,

Zakumbayeva, C. D.

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TITLE:

The Influence of the Halides of Alkali Metals Upon the Mechanism of the Catalytic Hydrogenation of Cyclohexene (Vliyaniye galoidov shchelochnykh metallov na mekhanizm

kataliticheskogo gidrirovaniya tsiklogeksena)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 4, pp 380-882

(USSR)

ABSTRACT:

The influence exercised by salts on the catalytic hydrogenation of solutions has hitherto been only very little investigated. The authors investigated the hydrogenation of cyclohexene on a skeleton-nickel-catalyst (0.3 g) in solutions of 0.01; 0.1; 0.5 and 1 n KCl, KBr and KJ in 50% ethyl alcohol at the temperatures of 20, 30, 40°. For comparison, experiments were also carried out with 50%-ethyl alcohol without any additions. The authors investigated the kinetics of hydrogen absorption and determined the potential of the pulverulent catalyst. A diagram shows the kinetic curves and the potential curves for the hydrogenation of

Card 1/3

cyclohexene in the presence of KCl at 20°. The rate of hydro-

等多年在4年中已代末年的经验的经验的 经数据更换条件的证据的现在分词 医电影 经国际证券 法国际的证据。这一次相比自然的对象对外的证明证据,这种证明,因此可能可以还可以的证明的证明,但是是因此可以可以

SOV/20-124-4-42/67
The Influence of the Halides of Alkali Metals Upon the Mechanism of the Catalytic Hydrogenation of Cyclohexene

genation decreases with increasing concentration of the KCl. Additions of KCl shift the potential of the catalyst towards the negative side. With increasing concentration, the rate of hydrogenation of the KCl decreases. The second diagram shows the kinetic curves and the potential curves for the hydrogenation of cyclohexene in the presence of KBr. The influence exercised by KCl and KBr is nearly the same in both cases, a certain difference becoming noticeable only in the case of the potential curves. The hydrogenation of cyclohexene in the presence of additions of KCl and KBr takes place at more negative potentials, and the rate of hydrogenation decreases accordingly. This is apparently due to the decreases of the adsorption of cyclohexene on the catalytic surface in the presence of additions. The activation energy of the hydrogenation of cyclohexene grows with increasing concentration of the admixtures from 2 to 6 kcal/mol. Additions of KJ reduce the rate of hydrogenation of cyclo. hexene still more. For the potential of the catalyst it holds that Cl < Br < J. The pH-value of the substances investigated was somewhat modified after the experiments. A

Card 2/3

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SOY/20-124-4-42/67 The Influence of the Halides of Alkali Metals Upon the Mechanism of the Catalytic Hydrogenation of Cyclohexene

potassium-cation is adsorbed in a KCl solution on the surface of the nickel catalyst, but in solutions of KBr and KJ an anion is adsorbed. For the binding energy of the adsorbed hydrogen it holds that $\text{Cl}^- \subset \text{Br}^- \subset \text{J}^-$. There are 3 figures, 1 table, and 6 references, 3 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk KazSSR

(Institute of Chemical Sciences of the Academy of Sciences,

Kazakhskaya SSR)

SUBMITTED: August 25, 1958

Card 3/3

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5 在收入工程,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,19 66873 SOV/76-33-11-36/47 The Influence of Potassium Bromide Additions on the Mechanism Sokol'skiy, D. V., Zakumbayeva, G. D. of the Catalytic Hydrogenation of Some Organic Compounds Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 11, pp 2579-2585 TITLE: The influence of neutral electrolytes on the mechanism of catalytic hydrogenation has hitherto scarcely been investigated. Only recently Erdey-Gruz and Tsimmer (Ref 1), and Khosino and PERIODICAL: Miyata (Ref 2) carried out such investigations. The potention metric method developed by D. V. Sokoliskiy and V. A. Druzi (Ref 3) makes negation to investigate the influence of the (Ref 3) makes possible to investigate the influence of the ABSTRACT: above-mentioned additions on the structure of the double-layer and on the concentration relation of the reacting substances on the surface of the pulverized catalysts. Additions of potassium bromide were investigated in the present case, studies of A. N. Frunkin (Ref 4) showed that the bromine anion influences the reduction on the Pt - H2 electrodes. The experiments were made on a skeleton nickel catalyst (0.3 g), card 1/3

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sov/76-33-11-36/47

The Influence of Potassium Bromide Additions on the Mechanism of the Catalytic Hydrogenation of Some Organic Compounds

> cyclohexene, allyl alcohol, mosityl oxide, and p-nitrophonol being hydrogenated. 50%-ethanol and 0.01, 0.1, 0.5, and insolutions of KBr in 50% ethanol at 20, 30, and 400 were used. The kinetic and potential curves obtained (Fig 1) show that with an increase in the concentration of the potassium bromide the adsorption of the cyclohexene on the surface of the catalyst decreases as well as the rate of hydrogenation. It is assumed that the bromine anion forms a film on the surface of the catalyst by which an additional potential barrier is formed which prevents the cyclohexene from entering into the reaction. Calculations of the activation energy (Table 1) show that the limiting stage of the cyclohexene hydrogenation on the skeleton nickel represents the activation of the cyclohexene, and that this activation is increased by the addition of KBr. The influence of additions of potassium bromide on the hydrogenation of allyl alcohol (Figs 2,3) is weaker than at cyclohexene, while with p-nitrophenol 7(Fig 5) the effect observed is similar to that with cyclohexane. The hydrogenation of mesityl oxide is accelerated by small additions of potassium bromide (0.01

Card 2/3

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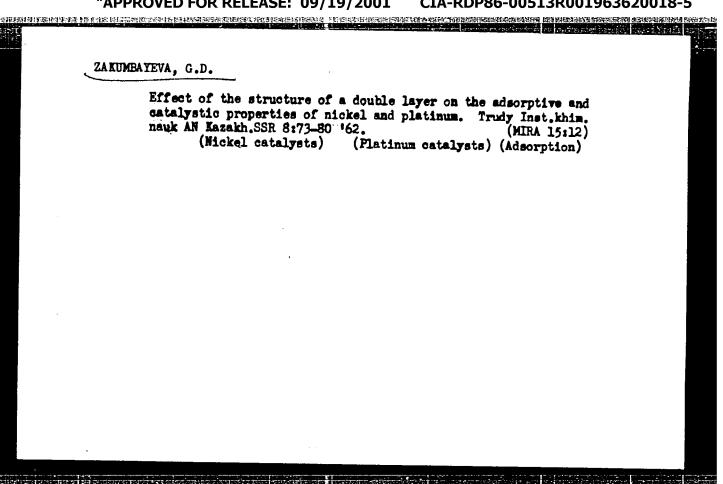
The Influence of Potassium Bromide Additions on the Mechanism of the Catalytic Hydrogenation of Some Organic Compounds

and 0.1n) (Fig 4), but inhibited by higher concentrations (0.5 and 1n), which fact is explained by an orientation of the dipoles. It is assumed that the more negative the dipole momentum of the substance is the worse is the hydrogenation in the presence of bromine ions. The hydrogenation of the mesityl oxide is also limited by the activation of the mesityl oxide (Table 2, activation energies). With respect to the amount of the adsorption the compounds investigated can be listed in the following order: cyclohexene < allyl alcohol < mesityl oxide < p-nitrophenol. There are 5 figures, 2 tables, and 8 Soviet references.

ASSOCIATION:

Akademiya nauk KazSSR (Academy of Sciences of the KazSSR)

Card 3/3



CIA-RDP86-00513R001963620018-5 'APPROVED FOR RELEASE: 09/19/2001

EVIT (m) /EWP(j) /EWP(t) /EWP(b) IJP(c) JD/JG/RM 25157-65 8/0020/64/159/006/1323/1325 ACCESSION NR: AP5001991

AUTHOR: Zakumbayeva, G. D.; Noskova, N. F.; Sokol'skiy, D. V.; Konayev,

E. N. (Academician AN KazSSR)

TITLE: Low temperature oxidation of carbon monoxide with aqueous solutions of

palladium salts

SOURCE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1323-1325

TOPIC TAGS: carbon monoxide oxidation, palladium containing catalyst, palladium copper iron catalyst, catalyst stability

ABSTRACT: Small amounts of CO (0.2-4%) can be essentially completely oxidized in one pass at low temperatures with aqueous solutions of a catalyst system containing Pd2+-Cu2+-Fe3+. The oxidation proceeds via the formation and decomposition of the π complex[PdX₃COl⁻] the reduced Pd must be regenerated to Pd²⁺. H₂O₂, CrCl₃, K₂Cr₂O₇, Cu²⁺ and Fe³⁺ were investigated as oxidizing agents in the aqueous Pd salt solutions; the most stable and active system contained [Pd²⁺]/[Cu²⁺]= 0. 22; 0. 5-1 g/1 Fe³⁺ increased the activity, but 1. 5-2. 5

Card 1/2

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ACCESSION NR: AP5001991

g/1 of Fe³⁺ retarded the CO oxidation process. Anion concentration also affected the process; optimum catalyst activity was attained with 3.5 g/1 Cl⁻, 20.6 g/1 Br⁻ and 13-15 g/1 CH₃CCO⁻. Increasing temperature from 20 to 40 C had little effect, and the gas feed rate had no effect on the catalyst activity. Complete reversibility of the Cu²⁺ Cu⁺ + e redox system is necessary to maintain high catalytic activity. Several methods for possibly increasing catalyst stability were investigated. $K_2Cr_2O_7$ and $CrCl_3$ did not give desired results; high concentrations of oxidizing agents with high redox potentials (Fe³⁺) interfered with reduction of the Pd complex. Catalyst stability was prolonged by the constant addition of 0.4% H_2O_2 , but after several hours the activity fell due to the dilution of the catalyst solution. The stability of the catalyst was increased by a new method of regeneration (Abstractor's note: the method was not described) so the process could be operated continuously as long as desired. Orig. art. has: 3 figures.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk KazSSR (Institute of

Chemical Sciences, Academy of Sciences, KazSSR)

SUBMITTED: 17Aug64

ENCL: 00

SUB CODE: GC

NR REF SOV: 005

OTHER: 005

Card 2/2

Statistical generalized mon	ent of V.K. Semenchenko, and the	
surface activity of metals. Ag '60.	Zhur. neorg. khim. 5 no.8:1892-1893 (MIRA 13:9)	
l. Kabardino-Balkarskiy gos (Metals)	udaratvennyy universitet. ([lons]	

ZAKUPRA, V.A., Cand Tech Sci — (dies) "Study of the wide neutral firstion of semi-color brown coal of the Aleksandriyek deposit of the UKSSR and products of its catalytic processing."

Daopropatrovek, 1959. 14 pp; 1 sheet of tables (Yin of Higher Education UKSSR. Daepropatrovek Chem-technol Inst im F.E. Dzerzhinskiy). 150 copies (YL, 38-58, 116)

35

L 19865-65 EWT(m)/EPF(c)/EMP(j) Pc-4/Pr-4 AEDC(b)/SSD/ESD/AFWL/APCC(b)/ESD(gs)/ ESD(t)" RM/MLK BOOK EXPLOITATION ACCESSION NR AM5001004 Sklyar, Vladimir Tikhonovich (Candidate of Chemical Sciences); Lebedev, YEvgraf Venediktovich (Candidate of Chemical Sciences); Zakupra, Vadim Aleksandrovich (Candidate of Technical Sciences) Higher monoolefins (Vy sehiye monoolefiny), Kiev, 1zd-vo "Tekhmika", 1964, 281 p. illus., biblio. 1,800 copies printed. TOPIC TAGS: higher monoolefin, chromotography, infrared spectroscopy, mass spectroscopy PURPOSE AND COVERAGE: This book covers the problems of obtaining monoolefins with five and more carbon atoms and their use for alcohol synthesis, washing substances, plastics plasticizers, synthetic resins, oil additives, high quality special lubricants, etc. The methods of studying olefin-containing carbon mixtures, especially the methods of gas-liquid and liquid chromotography, inrared spectroscopy, mass spectroscopy, etc. are examined in detail. The book is intended for researchers, engineers, and technicians in the petrochemical and oil refining industries and can also be useful for students and graduate students specializing in petrochemical synthesis. TABLE OF CONTENTS [abridge4]: Card 1/2

. 19165–65 ICCESSION NR AM50010	
h. II. Investigati h. III. Use of hig appendix 255 Bibliography 263	gher monoolefins of hydrocarbons 5 on of higher monoolefins 65 her monoolefins 140
UB CODE: OC	SUBHITTED: 14Apr64 NR REF SOY: 245
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1 41165-65 EWT(m)/EWP(t)/EWP(b) IJF(c) JD S/0286/65/000/003/0041/0041 ACCESSION NR: AP5007171 S/0286/65/000/003/0041/0041	
AUTHOR: Lebedev. Ye. V.; Sklyar, V. T.; Perekrest. A. N.; Gordash, Yu. T.; B. Zakupra. V. A.; Kal'chenko. V. K.; Gyul'misaryan, T. G. TITLE: A method for producing highly aromatized material for making carbon black. Class 23, No. 167933	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 41 TOPIC TAGS: carbon black, aromatic compound	
ABSTRACT: This Author's Certificate introduces a method for producing highly aromatized material for the production of carbon black. The material is made from petroleum byproducts by using redistillation to isolate the hydrocarbon fraction petroleum byproducts by using redistillation to isolate the hydrocarbon fraction which contains the aromatic compounds. This fraction is then extracted by furfural which contains the aromatic compounds. This fraction is then extracted by furfural or phenol. In order to provide a wider choice of materials, coke distillate is used as the petroleum byproduct. The 240-460°C fraction is isolated from the dis-	
tillate. ASSOCIATION: none	
Card 1/2 /	

ZAKUPRA, V.A.; LEBEDEV, Ye.V.; MANZA, I.A.

Chromatographic analysis of the cracking and dehydrogenation products of paraffin hydrocarbons, Khim, i tekh, topl, i masel 10 no.2:28-34 (MIRA 18:8)

1. UkrNIIGIPRONEFT .

The property of the control of the c DAL', V.I.; ZAKUPRA, V.A.; RUBAN, I.N. Determining sulfur in coal products by the method of double combustion. Zav. lab. 24 no.12:1445-1446 '58. (MIRA 12:1) 1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Sulfur--Analysis)

> CIA-RDP86-00513R001963620018-5" APPROVED FOR RELEASE: 09/19/2001

11(4) AUTHORS:

Dal', V. I., Zakupra, V. A.

SOY/156-55-1-45/54

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TITLE:

The Chromatographic Investigation of the Benzine From the Catalytic Cracking of the Meutral Tar Share of the Scale-cohing of the Aleksandriya Lignite of the UkrSSR (Khromatograficles-koye issledovaniya benzina kataliticheskogo krekinga neytralinoy chasti smoly polukoksovaniya aleksandriyskikh burykh ugley USSR)

PERIODICAL:

Nauchnyye deklady vysskey shkely. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 173 - 176 (USER)

ABSTRACT:

The complete chromatographic separation of hydrocarbons necessitates the use of rather complicated high columns. A U-shaped column is proposed, in which the substance to be chromatographed moves downward in the first half, and upward in the second (Figure). The cracking product obtained on the metal reactor at 450° yielded 30.5% benzene (beiling point below 200°), 38.2% gas oil (boiling point above 200°), and 10.5% gas. The remaining 20.8% is made up of coke, moisture, and losses. Benzene was fractioned on cilica gel ASK. Physical data and iodine number were determined in respect of the

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The Chromatographic Investigation of the Bennine From the SC7/156-59-1-45/54 Catalytic Cracking of the Neutral Tar Share of the Semi-coking of the Aleksandriya Lignite of the UkrSSR

individual fractions (Table). The chromatograms presented show the separation into paraffin- and naphthene-hydrocarbons, clefines and aromatic hydrecarbons. The physical constants change accordingly. One table shows the compositions of the Individual fractions from these hydrocarbon groups. A striking fact is the high aromatic hydrocarbon content (heavy benzol, xylenes). There are 3 figures, 2 tables, and 9 references, 8 of which are Soviet.

Kafedra khimicheskoy tekhnologii topliva Dnepropetrovskogo khimiko-tekhnologicheskogo instituta im. F. E. Dzerzhinskogo Chemical Technology of Fuels of the Dnepropetrovsk Institute of Chemical Technology imeni F. E. Dzerzhinskiy) ASSOCIATION:

SUBMITTED:

June 20, 1958

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

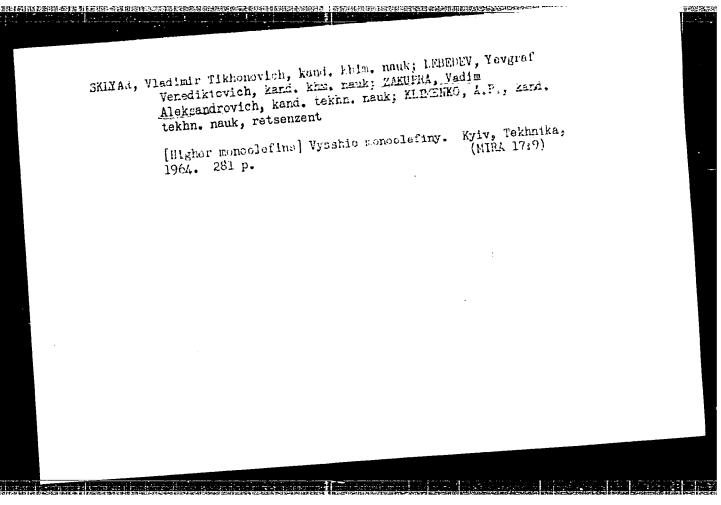
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DAL', V.I., doktor tekhn. nauk; ZAKUFRA, V.A., inzh.

Investigation of the composition of the tar of semicoked
Aleksandrov brown coal and products of its catalytic cracking.
Aleksandrov brown coal and products of the Catalytic Cracking.
Nompl. vyk. pal.-energ. res. Ukr. no.1:209-221 150.

(WiRk 16:7)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im.
Dzerzhinskogo.
(Coal-Carbonization)



KLIMENKO, Aleksandr Petrovich, kand. tekhn. nauk; ZAKUFRA, V.A., kand. khim. nauk, retsenzent [Separation of natural hydrocarbon gases] Razdelenie prirodnykh uglevodorodnykh gazov. Kiev, Tekhnika, 1964. 379 p.
(MIRA 17:11)

ACCESSION NR: AP4043279

5/0065/64/000/008/0021/0026

AUTHOR: Zakupra, V. A.; Lebedev, Ye. V.; Hanza, I. A.

TITLE: The effect of chemical treatment on the structure and adsorption property of silica gels with different trade marks

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 8, 1964, 21-26

TOPIC TAGS: silica gel, industrial silica gel, silica gel separation effectiveness, displacement chromatography, silica gel chemical treatment, hydrocarbon group separation, chromatographic hydrocarbon analysis

ABSTRACT: The effect of chemical treatment (with HCl and H₂O₂) of industrial silica gels ASH, KSH, ASK, and of silica gels with a given pore radius KSH-6, KSS-4, KSK-2, on the effectiveness of their separation of various synthetic mixtures of paraffinic, mono-olefinic, and aromatic hydrocarbons was studied by means of displacement chromatography. The use of displacement chromatography for analytical determination of the group composition of cracking or dehydrogenation products has made it possible to decrease the total volume of the

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

ACCESSION NR: AP4043279

mixture to be studied as a result of a decrease in the volume of the desorption fraction used in identification. Thus, a decrease in the volume of the mixture to be arelyzed decreases the consumption of silica gels. It is noted that this method is advantageous for a series of determinations, since the size of the apparatus dimensions and the time needed for analysis are also decreased. The characteristics of the individual hydrocarbon fractions separated are given in Table 1 of the Enclosure. To determine the effect of chemical treatment of silica gels on the effectiveness of separation of various hydrocarbon mixtures, silica gels with various porous structure (treated and untreated chemically) were used. It was found that the best properties for separating benzene, n-heptane and 2-heptene (mixture 1), and isopropyl benzene, n-octane, and 1-octene (mixture 2) were possessed by ASH, KSH, and KSS-4 silica gels which had been treated chemically. For separation of a-methylnaphthalene, n-hexadecane, and 1-hexadecene (mixture 3), the most effective agents were KSS-4 and ASK silica gels which also had been chemically treated. KSH-6 silica gel clearly showed the effect of chemical treatment, and its separation effectiveness for mixtures of 1 and 2 approached that of

Card 2/5

ACCESSION NR: AP4043279 ASH, KSH, and KSS-4. The activity determination of the silica gels used in the separation of benzene showed a decrease of 4 to 5 units for fine, porous silica gels which had been chemically treated. This decrease in activity is explained by a decrease in the specific surface on which the process of absorption of benzene depends. Λ sharper decrease in the specific surface (from 590 to 470 m²/g) as a result of chemical treatment occurred in ASH silica gel. From the differential curve of the distribution of pore sizes or the effective radii of the silica gels used, it was concluded that the effective pore radius of chemically treated KSS-4 silica gel is 21 to 27 Å greater than that of the untreated gel. For ASH silica gel with a larger pore size, the change is characterized by an increase in the number of large pores. It was concluded that the separating ability of silica gels increases after chemical treatment, with the exception of KSK-2 silica gel, which consists of large pores and has decreased ability to separate mixtures of high-molecular particles. The most effective silica gel with medium pore size was KSS-4. Thus, it was

established that chemical treatment leads to changes in the porous structure of silica gels by increasing the pore size and decreasing the specific surfaces. Orig. art. has: 5 figures and 2 tables.

Cord 3/5

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Comp ound	Boiling Point *C* (760 mm of Hg)	Refractive Index n _D	Density	Synthetic Hixture of Hydrocarbons Z by volume		
Benzene	80.0-80.5	1.5010	0.8790	33.5		
n-ileptane	97.5 ~ 07.9	1.3875	0.6833			
2-Heptane	imported, not distilled	1.4094	0.7108	33.3		
Isopropyl bensene	149.9-151.7	1.4908	0.8635	33.4		
n-Octane	124.3-125.0	1.3972	0.7027	33.3 No.		
1-0ct ene	imported, not distilled	1.4089	0.7150	33.3		
Z-Hethylnapthalene	68.9-70.3 (4 mm pm. cm.)	1.6148	1.0232	37.7		
n-Hexadecane	108.3—108.5 (3.5 mm pm. cm.)	1.4345	0.7740	31.3 No. 3		
l-Hexadecene	imported, not distilled	1.4412	0.7811	31.0		

SKLYAR, V.T.; LEBEDEV, Ye.V.; ZAKUPRA, V.A.

Dehydrocracking of paraffins over sulfide catalysts. Nefte-khimiia 4 no.2:200-208 Mr-Ap'64 (MIRA 17:8)

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Thermocatalytic catalysts. Ibid.:209-214

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut neftyunoy i neftechimicheskoy promyshlennosti "Ukrniigiproneft", Kiyev.

8/0204/64/004/002/0209/0214

ACCESSION NR: AP4032515

AUTHOR: Sklyar, V. T.; Lebedev, Ye. V.; Zakupra, V. A.

TITIE: Thermocatalytic transformation of paraffins on oxide catalysts

SOURCE: Neftekhimiya, v. 4, no. 2, 1964, 209-214

TOPIC TAGS: paraffin dehydrocracking, olefin production, & olefin production, thermocatalytic cracking, oxide catalyst, MoO sub 3 NiO A1 sub 2 O sub 3 catalyst, WO sub 3 NiO A1 sub 2 O sub 3 catalyst, Cr sub 2 O sub 3 /Fe sub 2 O sub 3 catalyst, isomerization, disproportionation, aromatization, condensation, catalyst regeneration, economics, conversion rate

ABSTRACT: Liquid olefins were obtained in 35-45% yield from paraffins by dehydrocracking with oxide catalysts (MoO₃-NiO-Al₂O₃, WO₃-NiO-Al₂O₃, Cr₂O₃/Fc₂O₃) at temperatures of 550-590C. The paraffin crude, obtained from diesel oil by complexing with carbamide, typically contained 0.06% aromatics, and 40 wt.% C₁₆ - C₁₈ ing with carbamide, typically contained on a reduced the yield; at 590C, the n-paraffins. At 550C increasing the feed rate reduced the yield; at 590C, the reverse obtains and high yields were obtained at a space velocity of 3 hours to obtain a relatively high of -olefin-containing product the conversion should be

Card 1/2

ACCESSION NR: AP4032515

limited to 30-40% at high temperatures and space velocities, simultaneously recirculating the unconverted portion of the crude and inert diluents. Side reactions such as isomerization, disproportionation of hydrogen, aromatization and condensation are more prevalent with these oxide than with sulfide catalysts. However, the former are cheaper and may be regenerated more easily. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy i proyektny*y institut neftyanoy i neftekhimicheskoy promy*shlennosti "Ukrniigiproneft'" g. Kiyev. (State Scientific Research and Planning Institute of the Petroleum and Petrochemical Industry)

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CIA-RDP86-00513R001963620018-5 "APPROVED FOR RELEASE: 09/19/2001

5(2)

SOY/32-24-12-11/45

AUTHORS:

Dal', V. I., Zakupra, V. A., Ruban, I. N.

TITLE:

Determination of Sulfur in Products of Carbon Treatment Using the Double Combustion Method (Opredeleniye sery v produktakh

pererabotki uglya metodom dvoynogo sozhzheniya)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12, pp 1445-1446

(USSR)

ABSTRACT:

The method of double combustion was suggested by Volynskiy and Chudakova (Ref 1). In the work reported here an iodine solution containing starch was used instead of the soda solution for adsorbing the SO2 gas. The absorber was also modified (Figure),

and among other changes the glass filter was replaced by a perforated plastic lamella. Instead of the gas burner a small electric furnace was used. The product of a catalytic cracking (over 2000), the neutral resisions fraction of semicoking (200-2500), a cracking fraction (200-3000), a Diesel cil, the

resinous fraction of a catalytic cracking product (over 2000), concentrates of various aromatic hydrocarbons, and a coal tar

Card 1/2

were analyzed (Table). It was observed that with a sulfur con-

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SOV/32-24-12-11/45

Determination of Sulfur in Products of Carbon Treatment Using the Double Combustion Method

tent of more than 3% the titration of the SO₂ with iodine is more difficult. When this is the case the weighed sample taken must be smaller and the duration of the analysis must be lengthened. Using the iodine solution the analytic method is simplified and the analysis is carried out more quickly. There are 1 figure, 1 table, and 1 Soviet reference.

ASSOCIATION:

Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemical-Technological Institute)

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ZAKUPRA, V.A., kand.tekhm.nauk

Apparatus for rapid chromatographic adsorption fractionation; two-stage chromato-graphic column. Nauch.zap.Ukrniiproekta .co.4:141-149 *61.

(Chromatographic analysis) (Coal--Analysis)

(Petroleum--Analysis)

THE PROPERTY OF THE PROPERTY O

ZAKUPRA, V.A., LEBEDEV, Ye.V., MANGA, I.A., Prinimala ud. autiye StinYAKOVA, I.B.

Effect of chemical treatment on the structure and adsorption properties of various brands of silica gels. Khim. 1 tekh. topl 1 masel 9 no.8:21-26 Ag *64. (MIRA 17:10)

UkrNIIgiproneft[†].

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

L 62095-65 ENT(1)/EEC-4/ENA(H) Fm-4/Fac-4/Pab/Pi-4/Pj-4

ACCESSION NR: AP5016729

UR/0286/65/000/010/0045/0045

AUTHORS: Golont, L. Ye.; Tumakova, R. N.; Gabyshev, V. G.; Zakurdayev, A. D.

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TITLE: Device for coupling a drift resonator with magnified spatial interaction and a rectangular waveguide. Class 21, No. 171033

SOURCE: Byulleten' izobreteniy i tevernykh znakov, no. 10, 1965, 45

TOPIC TAGS: waveguide coupler, resonator

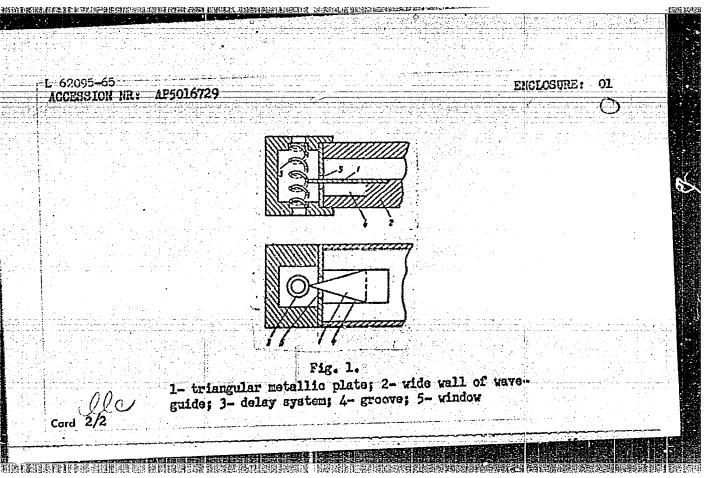
ABSTRACT: This Author Certificate presents a device for coupling a drift resonator with magnified spatial interaction and a rectangular waveguide through a coupling window in the resonator wall. To insure the required amount of coupling, the device is in the form of a triangular metallic plate (see Fig. 1 on the Enclosure). Its wide side is connected to the wide wall of the rectangular waveguide, and the apex is connected to the delay system of the drift resonator. A rectangular groove is cut in the wide wall of the waveguide under the plate coupler. Orig. art. has: 1 diagram.

ASSOCIATION: Gosudarstvennyy komitet po elektronnoy tekhnike SSSN (State Commit-

tee for Electronic Tachnology, SSSR)

SUBMITTED: 18Apr64 NO REF SOV: 000 Card 1/2 ENCL: OL OTHER: OCO

SUB CODE: EC



IOMFATIOZE, G.A.; VEDERNIKOV, A.A.; Prinimali uchastiye: SHARONOV, G.Yo.8
ingt.; ZAKURDAYEV, A.G.; MOKROVA, V.P.; ROZHKOV, I.M.

Carbon oxidation during the finishing period of the oxygen blowing
of an open-hearth furnace bath. [Sbor. trud.] TSNIICHM no.29:
65.72 163.

AKINFIYEV, V.I.; ZAKURDAYEV, A.G.; SHARONOV, G.Ye.; SOROKIN, A.A.; CHEVELA, L.A.

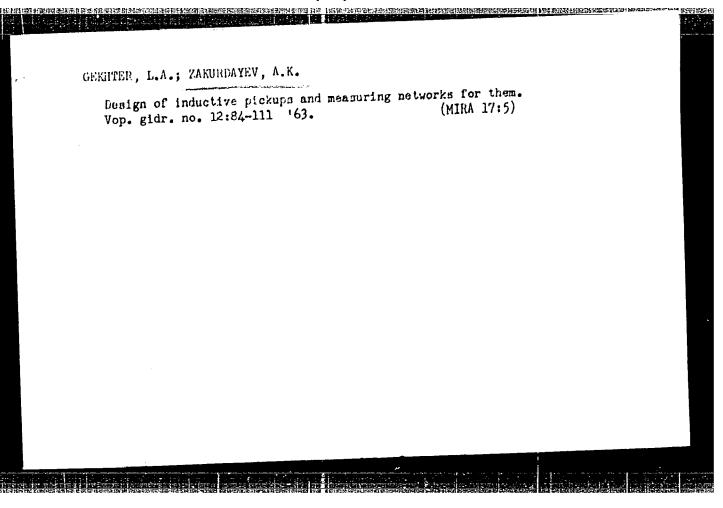
Mechanism and the kinetics of processes taking place in the bath of a basic open-hearth furnace in scrap and hot metal practice. [Sbor. trud.] TSNIICHM no.29:73-102 '63. (MIRA 17:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Akinfiyev, Zakurdayev, Sharonov). 2. Dneprovskiy metallurgicheskiy savod imeni Dzerzhinskogo (for Sorokin, Chevela).

ROZHKOV, I.M.; ZAKURDAYEV, A.G.

Determining the moment of the charge melting, the carbon content at the time of melting, and the metal temperature. Izv. vys. ucheb. zav.; chern. met. 6 no.11:42-46 '63. (MIRA 17:3)

1. TSentral'nyy nauchno-isaledovatel'skiy institut chernoy metallurgii.



"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620	018-5
L 05901-67 EWP(j)/EWT(m) lJF(c) RM	
ACC NR: AT6016343 (A) SOURCE CODE: UR/3183/65/000/001/0115/0120	
AUTHOR: Birulya, A. K. (Doctor of technical sciences); Mikhovich, S. I. (Candidate of technical sciences); Zakurdayev, I. Ye. (Engineer)	
ORG: None	
TITLE: Automobile tire-to-road adhesion during the fall-winter period	
SOURCE: Kharkov. Avtomobil'no-dorozhnyy institut. Avtomobil'nyy transport; mezhvedom-stvennyy respublikanskiy nauchno-tekhnicheskiy sbornik, no. 1, 1967, 117-120	
TOPIC TAGS: automobile industry, road, highway vehicle data, motor vehicle, adhesion	
ABSTRACT: Automobile tire adhesion to road surface is characterized by an adhesion factor which has a significant effect on safe maximum automobile speed and determines the economic efficiency of vehicle transport. The adhesion factor is a function of surface type and degree of roughness, wear and condition. This factor is not constant for any period of time but varies from season to season and year to year depending on climatic conditions. It is highest during summer months and falls sharply in winter.	
The most dangerous period for travelling is fall and winter. The adhesion factor drops from summer to winter from 0.75 to 0.40. The minimum values for this factor have been determined for many regions of the SSSR and run from 0.4 to 0.6. The authors discuss a method developed at the Kharkov Automobile Highway Institute for de-	
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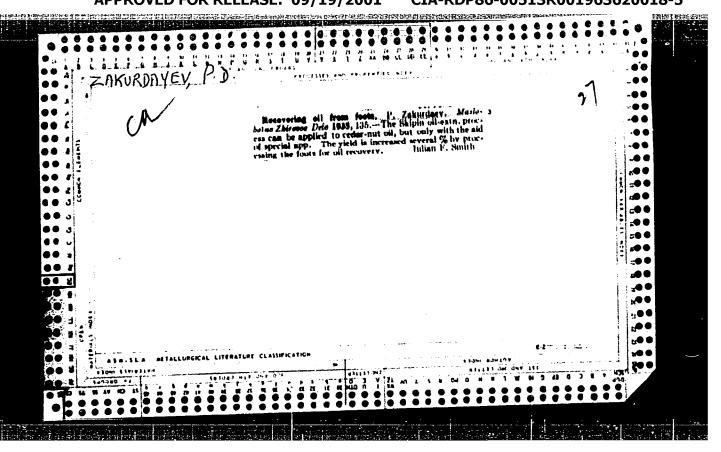
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ACC NR: AT6016343	
termining the adhesion factor. This method is based on braking distance measurements. An expression is given for calculating the longitudinal adhesion factor using this method. Experimental verification of the theoretical data was done on the KhADI Mobile Laboratory based on the GAZ-51 truck, using the M-20 automobile as the test vehicle. The results show that the adhesion factor is highest (0.8-0.9) in warm vehicle. The results show that the adhesion factor is highest (0.8-0.9) in warm vehicle. The results show that the adhesion factor is 0.45-0.55 for wet or dirty surfaces. During winter months the adhesion factor is 0.20-0.25 for snow and 0.14-0.18 for ice. During winter months the adhesion factor is 0.20-0.25 for snow and 0.14-0.18 for ice. All of these data are for the same road section. The effect of air temperature on the adhesion factor is considered. The authors recommend that since the minimum safe adhesion factor is 0.4, the road service crews should systematically measure the existnession factors for various roads and develop effective means for maintaining a factor which ensures safe travel. Orig. art. has: 2 tables, 3 formulas. SUB CODE: 13/ SUEM DATE: None/ ORIG REF: 004	
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Card 2/2	

នៅវ	[Motion-picture films, their characteristics and processing] Kinoplenki, ikh kharakteristiki i obrabotka. Moskva, Izd-vo "Iskusstvo," 1964. 109 p. (MIRA 17:7)				

ZAKURDAYEV, M.

Patriotism and perseverance of Soviet seamen. Blok.agit.vod. transp. no.16:11-18 Ag '55. (NIBA 8:9)

1. Sekretar' partiynoy organizatsii tankera "Tuapse" (Formosa--Freedom of the seas)



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ZAKURDAYEV, P. D. I MRYKHIN, N. I.

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Opyt raboty na nyetryeryvno dyeystvuyushchyey zustraktsionnoy ustanovkye s odnokratnym pryedvarit ye 1'nym s'yemom masla. Pishch. Prom-st' SSSR, Vyp. 13, 1949, S. 27-31.

SO: Letopis' No. 34

	KERFER, T. D.	
•	ZAKUIDAYEV, P.D.	
	Processing undecorticated cottonseed in a worm-type extraction unit. Naslzhir.prom. 17 no.10:13-15 *52. (MLRA 10:9)	
	1. Kropotkinskiy masloekstraktsionnyy zavod. (Cottonseed)	

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ZAKURDAYEV						
		rage. Maslzhi:	r. prom. 23 no.3:9-1	0 157.		
1	. Kropotkinskiy mas (Oilseeds	loekstraktsionny Storage)	y zavod.	(MIRA 10:4)		
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ZAKURDAYEV, P.D.	de makes Med ab	4 22 E	-21_22_152	(MIRA 10:5)
Use of Cha	in grates. Maslsh	1r. prom. 2) 10.)	:J1-J2 'J7'	(HIELE 10.))
1. Kropotk	inskiy maslockstrak (FurnacesGrates)	tsionnyy zavod.		
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ZAKURDAYEV, P.D. Certain features of the storage of the raw sunflower seed oil. Masl.-ahir.prom. 28 no.2138-39 F '62. (MIRA 1515) 1. Kropotkinskiy masloekstraktsionnyy zavod. (Sunflower seed oil)

ZAKURDAYEV, V., inzh.

Testing of the KDP-4,0 mowing machine at high speeds. Trakt. i sel'-khozmash.32 no.7:21-22 Jl '62. (MTRA 15:7)

1. Kazakhekaya machines—Testing)

(Mowing machines—Testing)

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5 by A.F. Laxurdayeva
Exhibition of Foreign Scientific and Technical Publications
(Wwatawka these ranger named to be a supported to the second s (Vystavka ihostrannoy nauchnoy i naucho-teknicheskoy literatury, ZAKURDAYEVA, A.T Russian)
Vestnik Akademii Nauk 988R 1957, Vol. 27, No. 1, P. 101 (USSR)
Reviewed: A June 1957 Reviewed: 4 June 1957

During the months of October and November 1956 the Academy of Sciences the need of the Academy of Sciences of the need of the n Sciences of the USSR organized an exhibition of foreign scientific AUTHOR and technical publications. This exhibition had been proposed by TITLE the British booksellers Collets Holdings Ltdowshich exhibited Received: 2 May 1957 books by 124 different British and American Publishers. The PERIODICAL exhibition showed books in English on physics, mathematics, mathematic exhibition showed books in Engilsh on physics, mathematics, geography, stronomy, ohemistry, biology, medicine, geology, geography, different branches of technology electronics, and make the materials are considered. ABSTRACT different branches of technology electronics, avistion, etc. as well as on different metallurgy, energetics, transport, anonomics, and art. Different topics from the fields of history. meverturgy, energetics, transport, etc. as well as on different topics from the fields of history, the field of technology. The field of technology. reference works, Particularly from the field of technology, reference works, Particularly from the man arhibition as frequency favorable comments. received particularly favorable comments. The exhibition was first shown in the House of Codeman in th received particularly favorable comments. The exhibition was first shown in the House of Sciences in Moscow from 10 to 28 October, and then transferred to the House of Sciences in Uctober, and then transferred to the House of Scientists Visited by over 15,000 scientists ASSOL PRESE CARD 1/2 SURMI AVAILA CARD 2

ZASURGAYAW., N.I.; HUTSOVA, A.A.; EMCHSHVAGUR, V.S.; EMMIDE, D.K.

Apperatus for studying the scattering of light in polymer solutions. Env. lab. 30 no.1111/07-1408 '64 (MURA 18:1)

1. Meskovskiy geometrstvennyy universitet im. M.V. Lomenosova.

ZAKURDAYEVA, N.P.; PODGORETSKIY, Ye.K.

Fractionation of cellulose triacetate. Khim. volok. no.6: 70-71 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

GENEMERTHYY, V.Ye., BURDYGINA, V.S.; ZAKURRAYEVA, T.1.

Changes of some fertility elements in the takyrs under the effect of land improvement measures. Izv. AN Turk. SSR. Ser. (MIRA 17:9) biol. nauk no.1:29-33 '64.

i. Turkmenskiy nauchno-issledovatel'skiy institut zemledaliya.

s/0274/64/000/001/A060/A060 SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1A386 ACCESSION NR: AR4023758 AUTHORS: Tereshchenko, A. I.; Zakurenko, O. Ye. TITLE: Tuning a rectangular cavity by wall displacement CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radio-TOPIC TAGS: cavity, resonator, rectangular cavity, cavity tuning, TOFIC TAGE: cavity, resonator, rectangular cavity, cavity tuning, rectangular cavity, cavity tuning range variable dimension cavity, cavity Q variation, cavity tuning range fiz. fak., v. 7, 86-89 TRANSLATION: Results are presented of a theoretical investigation TRANSLATION: Results are presented of a theoretical investigation of the tuning of a rectangular resonator by varying one of its dimension of a rectangular resonator tuning one of its dimension. or the tuning or a rectangular resonator by varying one of its dimensions. It is shown that the greatest tuning range is attained mensions. It is snown that the greatest tuning range is attained for the simplest H₁₀₁... A family of tuning curves for the resonance of the simplest H₁₀₁... nator and of the variation of its Q as functions of the ratio $\lambda/2a$,

ACCESSION NR: AR4023758

where λ is the wavelength after deformation and \underline{a} is the deformed dimension of the resonator, is presented. The results of the calculations lead to the following principal conclusions: 1. The initial rate of tuning relative to the dimension \underline{a} increases with increasing ratio $\lambda/2a$. 2. The closer the initial ratio $\lambda_0/2a$ to unity, the larger the tuning range. 3. The relative change in Q increases with increasing initial value of $\lambda_0/2a$. 4. The absolute value of the initial Q_0 decreases linearly with increasing ratio $\lambda/2a$. The calculation results make it possible to solve practically all problems connected with the tuning of a cavity resonator by moving its wall (the attainment of maximum and minimum tuning rates, the attainment of a maximum tuning range for specified limits of variation of Q, etc.).

DATE ACQ: 03Mar64

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ACCESSION NR: AR4014769

s/0058/63/000/012/H018/H018

SOURCE: RZh. Fizika, Abs. 12Zh125

AUTHOR: Tereshchenko, A. I.; Korobkin, V. A.; Zakurenko, O. Ye.

TITLE: Tuning of H-section resonator by means of ferrite

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962. Tr. Radio-fiz. fak., v. 7, 78-85

TOPIC TAGS: H-section resonator, H-section cavity, ferrite tuning, field distribution, Q factor, critical wavelength, frequency variation, frequency tuning

TRANSLATION: Expressions for the Q and for the field distribution in a H-section resonator without ferrite were obtained by calculating the fields in the H-section waveguide. Perturbation theory with the use of the quasistatic approximation of the field inside the

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ferrite was then used to obtain formulas for the frequency variation of an H-section or π -section resonator with a transversely-magnetized ferrite plate on the side wall. Plots of the frequency variation against the magnetic field are given for different transverse dimensions of the resonator. It is shown that the frequency variation depends strongly on the closeness of the resonant frequency λ_0 to λ_c , which is the critical wavelength of a waveguide having the same transverse dimensions as the resonator; the deviation increases with the increasing ratio $\lambda_0/\lambda_{\rm cr}$. An experimental test was made at a frequency of 3000 Mc with plates 1.5 and 3 mm thick. The experimental data coincide with the calculated ones. Ye. Lebedeva.

DATE ACQ: 24Jan64

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ACCESSION NR: AR3000390

s/0058/63/000/004/H025/H025

49

SOURCE: RZh. Fizika, Abs. 4Zh149

AUTHOR: Korobkin, V. A.; Tereshchenko, A. I.; Zakurenko, O. Ye.

TITIE: Retuning of a resonator of cruciform cross section with the aid of a

ferrite plate located on the side wall

CITED SOURCE: Uch. zap. Khar'kovsk. u-t, v. 121, 1962, Tr. Radiofiz. fak., no.

5, 49-55

TOPIC TAGS: microwave cavities, cruciform section, tuning range, ferrite slug

TRANSIATION: Calculations are presented for the retuning of a waveguide cavity with cruciform cross section by means of a ferrite plate located on the side wall. The calculation is by the perturbation method assuming a quasi-static internal field in the ferrite. It follows from the calculations that the amount of retuning is proportional to the ratio of the resonant wavelength to the critical wavelength, i.e., it is the larger, the higher the ledge. Therefore a cavity

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with cruciform transverse cross section should have a large tuning range compared with a rectangular cavity. To check on the calculations, the retuning of a rectangular and cruciform resonator with identical resonant frequency was checked experimentally. The increased tuning range of the cruciform cavity, as compared with the rectangular one, was found to be somewhat less than given by the calculations. Ye. Lebedeva

DATE ACQ: 14May63 ENCL: 00

SUB CODE: PH,SD

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ZAKURENOV, V. M., Cand Of Phys-Math-Sci --- (diss) "Investigation of the Temperature-Frequency Absorption of Ultrasonic Waves in the Esthers of Formic Acid by the Pulse Method,"

Moscow, 1959, 12 pp (Moscow Oblast Pedagogical Institute imeni N. K. Krupskaya)

(KL, 6-60, 120)

PHASE I BOOK EXPLOITATION SOV/5644

Vacronsiyskaya konferentsiya professorov i prepodavateley pedagogicheskikh institutov

Primenentye ul¹ traakustiki k instedovantyu veshchestva. vyp. 10. (Utilization of Ultranonics for the Investigation of Materials. no. 10) Moscow, Izd-vo MOPI, 1960. 321 p. 1000 cepies printed.

Eds.: V. F. Nozdrev, Professor, and B. B. Kudryavtsev, Professor.

PURPOSE: This book is intended for physicists and engineers interested in ultrasonic engineering.

COVERAGE: The collection of articles reviews present-day research in the application of ultrasound in medicine, chemistry, physics, metallurgy, ceramics, petroleum and mining engineering, defectoscopy, and other fields. No personalities are mentioned. References accompany individual articles.

Card 140

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Utilization of Ultrasonics	(Cont.)	SOV/5644	
Belinskaya, L. B., and B technical Institute imer Electrical and Acoustic			
Device			255
Gershenzon, Ye. M. [MG] Pedagogical Institute]. Centimeter-Length Way sonic Screen	The Passage of E	lectromagnetic	265
			200
Zakurenov, V. M. Shuysl Institute]. The Proble	m of Ultrasonic-W	uya Pedagogical ave Absorption	
in Complex Esters of F	formic Acid	•	269
Zalivchiy, V. N. [Moscow imeni N. K. Krupskaya	Oblast Polytechni	cal Institute nod of Studying	
Card 9/10			

S/058/61/000/010/098/100

AUTHOR: · Zakurenov, V.M.

TITLE:

Investigation of propagation velocity of ultrasonic waves in formiates by the pulse method on the basis of the saturation line

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 336, abstract 10Zh452 ("Uch. zap. Mosk. obl. ped. in-ta", 1960, v. 92, 185 - 198)

TEXT: The sound velocity was measured at temperatures from -40 to +260°C in butyl- (I) and propyl formiates (II). Velocity decreases linearly: \triangle c/c₀ \triangle t= - 0.00304 degree⁻¹ for (I) and -0.00301 degree⁻¹ for (II), where c₀ is velocity at 0°C. Experimental data for different formiates were compared on the basis of the law of corresponding states. The Raoult-law was checked; it does not hold in the critical region. Coefficient of adiabatic compressibility has been determined. Heat capacities op and ov of propyl formiate are approximately determined; at the critical point c, is finite, but c, tends to infinity.

L. Zarembo

[Abstracter's note: Complete translation]

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30504 S/194/61/000/008/054/092 D201/D304

AUTHOR:

Zakurenov, V.M.

TITLE:

The saturation line pulse method of studying the velocity of propagation of ultrasonic waves in complex ester formates

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 8-9, abstract 8 E63 (Uch. zap. Mosk. obl. ped. in-ta, 1960, 92, 185-198)

TEXT: The velocity of propagation of ultrasound was studied in propyl formate (PF) and butyl formate (BF) at temperatures from -40 to +260°C and at frequencies 5-12 mc/s. The velocity decreases linearly with increasing temperature, the slope of the line for PF and BF being 0.00301 and 0.00304 respectively multiplied by the respective velocities at 0°C. This principle of conformal states was checked for PF, BF, methyl and ethyl formate which agrees within 5-10% for all respective temperatures. It was shown experi-

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mentally that for the first four homologues of the formate series, the principle of conformal states is satisfied for adiabatic compressibility and stiffness; it has been established that the dependence of velocity on the respective density of several ester formates is expressed by approximately a single curve. Reasons are given for the possible deviations from the principles of conformal states. It has been established that the coefficient of adiabatic compressibility increases exponentially with temperature. At constant temperature the adiabatic compressibility decreases with increasing molecular weight. The Bekker-Nozdrev and Raoult's laws and the Lagemann ratio have been confirmed experimentally. It is shown that Raoult's rule satisfies the principle of conformal states, while the Lagemann ratio for fluids of one homologous series only, satisfies this principle in approximation only (with an accuracy of 19%), the accuracy being increased for liquids near their critical temperatures. In the study of US velocities by the saturation line method in PF near the critical temperature, a dependence in temperature has been established of specific thermal capacities at constant pressure

Card 2/3

The saturation line...

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and volume. Their ratio has also been calculated at critical points for the liquid PF phase. The results obtained are in qualitative agreement with those of other authors. 9 figures. 2 tables. 17 references. / Abstractor's note: Complete translation/

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ZAKUF	Measuring the property formic acid by zap. MOPI 92: (Uptras	propagation velocit the pulse method a 185-198 '60. onic wavesSpeed)	y of ultrasonic of long the saturat	waves in esters ion line. Uch. (MIRA 14:	of 9)
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KUZNETSOVA, Ye.M.; ZAKURIN, N.V.; NIKITIN, O.T.

Isotopic effect during distribution of titanium compounds
between water and ether. Zhur.neorg.khim. 7 no.3:676-677

Mr '62. (MIHA 15:3)

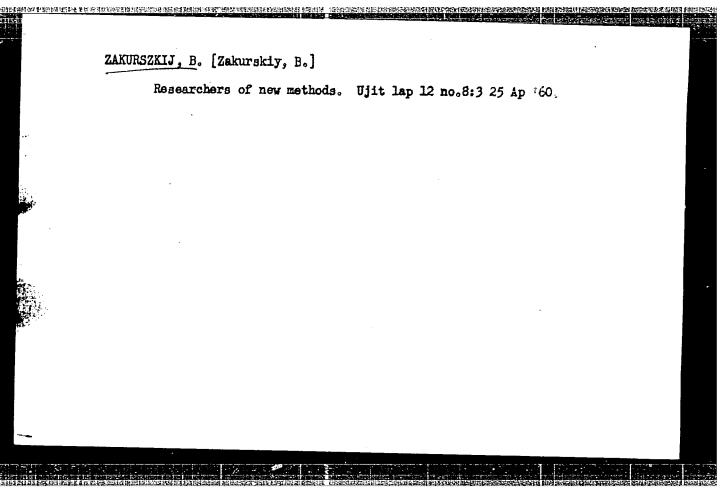
(Titanium—Isotopes) (Titanium compounds)

ZAKURKO, A.S.

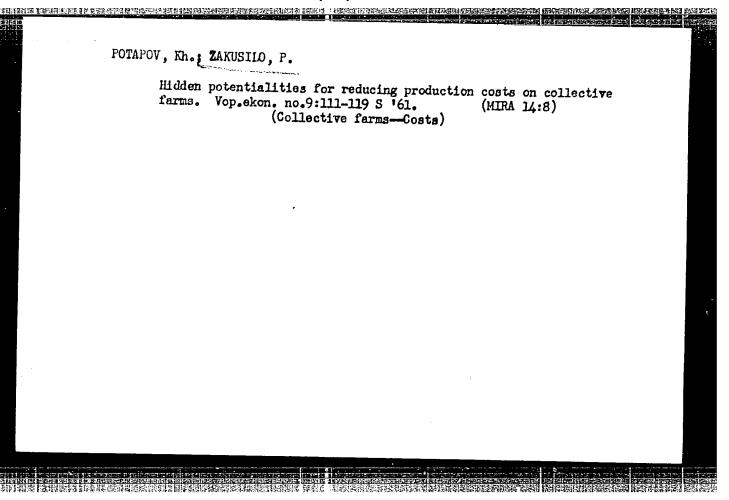
Potatoes and vegetables of the southern (suburban) zone of the Maritime Territory. Soob.DVFAN SSSR no. 15:105-108 '62.

(MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya AN SSSR.



"Colloidal-whemical Processes in the Drying of Bread. Shornik 1. Colloids in the Processes of the Food industry," Pishchepromizdat, 1946, 4.



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	POTAPOV, Kh.; ZAKUSILO, P.	
	Ways to economize on expenditures for agricultural production. Vop. ekon. no.12:60-69 D 162. (MIRA 16:1)	
	(Collective farms-Costs)	
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STOROZHEV, V.I.; KORKUNOV, I.N.; RUDAKOV, Ye.V.; MELLINYY, S.A.; LUKOVNIKOVA, S.V.; POTAPOV, Kh.Ye.; ZAKUSILO, P.S.; ZAVERENYAYEVA, L.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[Triumph of the Lenin cooperative plan in socialist countries] Pobeda leninskogo kooperativnogo plana v stranakh sotsializma. Moskva, Izd-vo ekon. lit-ry, 1963. 274 p. (MIRA 16:4)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy.

(Europe, Eastern-Agriculture, Cooperative)
(Collective farms)

POTAPOV, Khariton Yefremovich; ZAKUSILO, Pavel Stepanovich; KALASHNIKOVA, V.S., red.; TRUKHINA, O.N., tekhn. red.

[Ways of lowering unit costs of production on collective farms]
Puti snizheniia sebestoimosti produktsii v kolkhozakh. Moskva,
Gos. izd-vo sel'khoz. lit-ry, 1960. 142 p. (MIRA 14:7)
(Collective farms—Costs)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620018-5"

Methodology of the accounting for costs of collective farm production ("Production costs on collective farms." Reviewed by P. Zahusilo). Vop. ekon. no. 2:114-118 F '61. (MIPA 14:2)

(Agriculture—Costs)

ZAKI	Ash., Mostanto, 1.V., Bulator, M.V., Vregor, 1.V., Sfronto, Sfeed, Seed-65/695 Ash., Mostanty, 3.X., Arabiser, A.N., Catrallo, V.L., To- A Mannar-Tool for Producing Hoops (Stanot algoritation)	Brilly 1959, kr 6, p 18 (5528) Brilly 692946 or 7 Sep 1957). Submitted of for inventions and listocration at the Min- confusion order to produce correseed the press in order to produce correseed if from the coli the rollers for secondary if from the coli the rollers are pointed constants for testing arty into a piral a slao included, sirip to the press, and dies		SOV/19-59-6-72/655 SOV leather for the Dy-spec-72/655 deeper than the thinkness of the conting film, the second case - by costing the plate with the film serial only up to the upper edge of the flanges (projection).		Reserved to the second
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